



EUROPEAN COMMISSION  
DIRECTORATE-GENERAL FOR ENERGY  
DIRECTORATE-GENERAL FOR CLIMATE ACTION

# Reporting Guidelines Dataflow 7: RIC

**under Regulation (EU) 2018/1999 on Governance of the Energy Union  
and Climate Action  
Implementing Regulation 2022/2299  
Annex 7**

**Disclaimer: No changes compared to version 1.1 (2023)** these draft guidelines have been distributed for information in the context of the 5 November 2024 meeting of Energy Union Committee – Working Group I & Climate Change Committee – Working Groups I, II & Adaptation. A final version of the guidelines is to follow.

Disclaimer: The information and views set out in this publication are those of the author(s) and do not necessarily reflect the official opinion of the Commission. Neither the Commission nor any person acting on the Commission's behalf may be held responsible for the use which may be made of the information contained therein. The examples described in this document represent the views of the authors and are based on information gathered by the authors. The references used to develop these illustrative examples should always be considered as the most accurate and complete sources of information.

Prepared by the European Commission and European Environment Agency, with support from the European Topic Centre on Climate change Mitigation and Energy.

## CONTENTS

1.	Introduction .....	5
1.1.	This document .....	5
1.2.	Legal background .....	5
1.3.	Overall process of reporting .....	5
1.4.	Pre-filling, post-filling, pre-loading .....	6
1.4.1.	Colour-coding .....	6
1.4.2.	The process for pre-filling, pre-loading and post-filling of data .....	7
1.5.	Dynamic references to years .....	7
2.	ReportENER .....	8
2.1.	Intro .....	8
2.2.	Getting access to ReportENER .....	8
2.3.	Dataflow overview .....	8
2.4.	Report Details .....	10
2.5.	Organizing the reporting network .....	11
2.6.	Technical details of reporting .....	12
2.6.1.	Dataflow layout .....	12
2.6.2.	Report data collection with web forms .....	12
3.	Thematic guidelines for reporting .....	19
3.1.	Introduction .....	19
3.2.	Annex VII, Table 1: Progress towards national objectives translating the SET Plan objectives and policies to a national context .....	20
3.2.1.	FIELD 1.1: Name of national target/ objective .....	21
3.2.2.	FIELD 1.2: Description .....	22
3.2.3.	FIELD 1.3: Supported Energy Union R&I priority & technologies .....	23
3.2.4.	FIELD 1.4: Progress towards target/ objective .....	25
3.2.5.	FIELD 1.5: General Comments .....	26
3.2.6.	FIELD 1.6: Progress indicator(s) (Name of indicator to monitor progress, Value of indicator, Reference year, Unit) .....	27
3.3.	Annex VII, Table 2: Progress towards quantifiable national objectives for total public and, where available, private spending in research and innovation relating to clean energy technologies as well as for technology cost and performance development .....	29
3.3.1.	FIELD 2.1: Name of national target/ objective .....	30
3.3.2.	FIELD 2.2: Unit .....	31

3.3.3.	FIELD 2.3 & 2.4: Year (X-3, X-2).....	31
3.3.4.	FIELD 2.5 & 2.6: Target value/year.....	32
3.3.5.	FIELD 2.7: General Comments.....	32
3.4.	Annex VII, Table 3: Progress towards non-quantifiable national objectives for total public and, where available, private spending in research and innovation relating to clean energy technologies as well as for technology cost and performance development.....	34
3.4.1.	FIELD 3.1: Name of national target/ objective .....	35
3.4.2.	FIELD 3.2: Description .....	36
3.4.3.	FIELD 3.3: Supported Energy Union R&I priority & technologies .....	37
3.4.4.	FIELD 3.4: Progress towards target/ objective .....	37
3.4.5.	FIELD 3.5: Expected impacts of the set objective .....	38
3.5.	Annex VII, Table 4: Progress towards national objectives, including long-term targets for 2050 for the deployment of technologies for decarbonising energy- and carbon-intensive industrial sectors and, where applicable, for related carbon transport, use, and storage infrastructure.....	39
3.5.1.	FIELD 4.1: Name of national target / objective .....	40
3.5.2.	FIELD 4.2: Description .....	40
3.5.3.	FIELD 4.3: Progress towards target/ objective .....	41
3.5.4.	FIELD 4.4: General Comments.....	42
3.5.5.	FIELD 4.5: Progress indicator(s) (Name of indicator to monitor progress, Value of indicator, Reference year, Unit) 43	
3.6.	Annex VII, Table 5: Progress towards national objectives with regard to competitiveness .....	45
3.6.1.	FIELD 5.1: Name of national target / objective .....	46
3.6.2.	FIELD 5.2: Description .....	47
3.6.3.	FIELD 5.3: Progress towards target/ objective .....	48
3.6.4.	FIELD 5.4: General Comments.....	48
3.6.5.	FIELD 5.5: Progress indicator(s) (Name of indicator to monitor progress, Value of indicator, Reference year, Unit) 49	
4.	Finalizing reporting .....	50
4.1.	Validating your submission.....	50
4.2.	Resubmitting data.....	51
4.3.	Help during the reporting .....	52
5.	Quality assurance and quality control .....	52
	Annexes .....	53

6. Roles in the NECPR reporting .....	53
6.1. Member state roles .....	53
6.2. Commission/EEA roles .....	56

## 1. INTRODUCTION

### 1.1. This document

From 2023, reporting on research, innovation and competitiveness is part of the national energy and climate progress reports (Article 17) under Regulation (EU) 2018/1999 on the Governance of the Energy Union and Climate Action.

This document provides both technical and thematic guidance for the relevant reporting obligation and the use of the e-platform. The purpose of the guidelines is to support Member States in reporting this information by outlining:

- How to utilise the reporting platform
- Background information and examples for the information required,
  - *Technical guidelines* – facilitating how to report.
  - *Thematic guidelines* – facilitating what to report
- Information on finalising reporting,
- The quality checks carried out.

Ultimately, the goal is to improve the quality of the information reported by Member States and disseminated through the e-platform, by making it more timely, transparent, complete, consistent, comparable, coherent and accurate.

These reporting guidelines have been prepared by the European Commission, the EEA and its ETC/CME to provide guidance and support to the Member States for this transition to the new reporting obligation and reporting tool.

Some additional and background information is annexed to this document:

- Annex 1: reporting roles

### 1.2. Legal background

According to Article 17(1) of the [Regulation \(EU\) 2018/1999](#) (Governance Regulation), by 15 March 2023, and every two years thereafter, each Member State shall report to the Commission on the status of implementation of its integrated national energy and climate plan (NECP) by means of an integrated national energy and climate progress report (NECPR) covering all five dimensions of the Energy Union.

The recently adopted Commission [Implementing Regulation \(EU\) 2022/2299](#) ‘Laying down rules for the application of Regulation (EU) 2018/1999 of the European Parliament and of the Council as regards the structure, format, technical details and process for the integrated national energy and climate progress identifies all the reporting requirements within 23 Annexes.

### 1.3. Overall process of reporting

Each Member State shall submit their NECPR by 15 March 2023, and every two years thereafter.

The NECPR will be submitted through the e-platform established by the Commission<sup>1</sup>. Different elements of the progress reporting will be submitted through one of the following systems: Reportnet 3 and ReportENER.

This reporting obligation will be reported in ReportENER: <https://ec.europa.eu/energy-climate-plans-reporting/ePlatform/reportENER/screen/home>

## 1.4. Pre-filling, post-filling, pre-loading

### 1.4.1. Colour-coding

The Implementing Regulation uses colour-coding for the fields in each table. The below table indicates the meaning of the different colours.

Descriptive text (white/or light grey)	Text describing the purpose of the table / fields (not to be filled by MS)
N/A	Not applicable (not to be filled by MS)
To be filled in by MS	Information to be completed by MS: can be mandatory (if applicable/available) or voluntary
Pre-filling	<p>Information that is already provided by the MS to the Commission through another reporting exercise that finishes substantially before the deadline for the progress report, and if complete, fully covers the requirements of the NECPR, or that is determined by EU legislation. Therefore, MS will not submit the information again as part of the NECPR.</p> <p>Data cannot be altered in the progress reporting, but through the primary process established for the source data.</p> <p><b>ReportNet specific</b> Prefilled data will not appear directly in a reporting system, however, information on prefilled data will be accessible in the relevant export templates.</p>
Post-filling	<p>Information that is already provided by the MS to the Commission through another reporting exercise, ongoing in parallel to the progress reporting, and if complete, fully covers the requirements of the NECPR. Therefore, MS will not submit the information again as part of the NECPR.</p> <p>Data cannot be altered in the progress reporting, but through the primary process established for the source data.</p> <p><b>ReportNet specific</b> Post-filled data will not appear directly in a reporting system, however, information on where post-filled data is supposed to be provided will be visible in the relevant export templates. Once the QA/QC process is completed for the</p>

<sup>1</sup> Article 28 of the Regulation (EU)2018/1999 on the Governance of the Energy Union and the Climate change. E-platform available at: [Reporting system for EU countries | European Commission \(europa.eu\)](https://ec.europa.eu/energy-climate-plans-reporting/ePlatform/reportENER/screen/home).

	other reporting exercise, data will be stored and accessed together as one cohesive set of data.
Pre-loading	<p>Information that is already collected by the Commission from the past exercises or provided to the Commission through another source, but does not fully cover the requirements of the NECPR.</p> <p>Information can be pre-loaded in the relevant template.</p> <p>Data will be checked, completed and commented by the Member States, where applicable.</p> <p>Example: Policies and measures relevant to greenhouse gas emissions reported in 2021 pursuant to Article 18 of the Governance Regulation are already in the database of Reportnet 3, and reporters will be able to update them.</p>
Automatically calculated	Fields automatically calculated based on other fields.

#### 1.4.2. The process for pre-filling, pre-loading and post-filling of data

The dataflow described in this document does not include special data handling.

### 1.5. Dynamic references to years

Many tables in the annexes to the Implementing Regulation make dynamic references to years, which depend on the year of reporting.

The table below summarizes the dynamic references used in the annexes, and the years they refer to in the first two reporting exercises in 2023 and 2025.

Note: in the e-platform, the years themselves, rather than the dynamic references will be displayed.

**For the first reporting cycle in 2023, X-3 (i.e., 2020) reporting is not required but can be included by MS, where available and applicable.**

Dynamic reference	Respective year in first reporting (2023)	Respective year in second reporting (2025)
X	2023	2025
X-1	2022	2024
X-2	2021	2023
X-3	2020	2022
t	2025	2030
t+5	2030	2035
t+10	2035	2040
t+15	2040	2045
t+20	2045	2050
t+25	2050	2055

## 2. REPORTENER

### 2.1. Intro

The Governance Regulation specifies in Article 28 that the e-platform should be used for reporting on all dimensions of the Energy Union by Member States and the Commission, assisted by the European Environment Agency.

The e-platform consists of different elements, notably “ReportNet 3: and “ReportENER”. For the dataflows described in this document, ReportENER is used.



### 2.2. Getting access to ReportENER

ReportENER uses the EU Login account for user authentication. An EU Login account must be acquired prior to accessing ReportENER.

Please refer to the separate ReportENER account creation guideline for the process description.

NOTE: EU Login is associated with an e-mail. If the users uses different e-mail addresses and creates another EU Login account associated with the new e-mail, a new ReportENER request would need to be raised and all authorization privileges granted to the old account would not apply).

In such a case a user should update the e-mail associated with the EU Login account. ReportENER should detect e-mail change and adjust ReportENER user account after user confirmation for the changed e-mail.

### 2.3. Dataflow overview

In ReportENER a dataflow represents a single occurrence of a reporting obligation (that may be repeating) for a specific Member State. The scope of information to be reported within a dataflow depends on how the reporting obligation is decomposed and configured. In the case of complex reporting there may be a reporting campaign that binds together and includes a set of sub-reports.

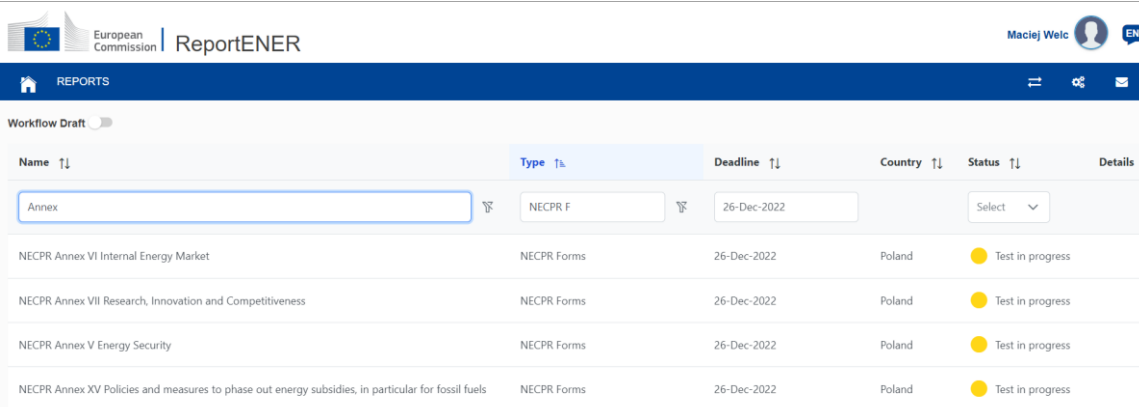


*Example: The NECPR is based on an implementing regulation that has 23 annexes that requires Member States to report every two years. ReportENER supports reporting for 11 of them and the dataflows are configured that way – 1 per annex. They are brought together in a reporting campaign that binds the 11 dataflows.*

The dataflows are listed under the “Reports” menu item and can be accessed by an authorized user when double clicking the name.

If there are too many reports visible, they can be filtered with use of obligation name, type or deadline.

*Example: 2023 NECPR dataflows are of the type “Energy & Climate Progress” with the deadline on 15 March 2023 and the name following the pattern “NECPR Annex ...”*



The screenshot shows the ReportENER interface. At the top, there is a navigation bar with the European Commission logo and the text 'ReportENER'. On the right, a user profile for 'Maciej Welc' is visible. Below the navigation bar, there is a 'REPORTS' section with a 'Workflow Draft' toggle. A search filter is applied to the 'Name' column, showing 'Annex'. The table below lists several dataflows with columns for Name, Type, Deadline, Country, Status, and Details. The dataflows listed are:

Name	Type	Deadline	Country	Status	Details
NECPR Annex VI Internal Energy Market	NECPR Forms	26-Dec-2022	Poland	Test in progress	
NECPR Annex VII Research, Innovation and Competitiveness	NECPR Forms	26-Dec-2022	Poland	Test in progress	
NECPR Annex V Energy Security	NECPR Forms	26-Dec-2022	Poland	Test in progress	
NECPR Annex XIV Policies and measures to phase out energy subsidies, in particular for fossil fuels	NECPR Forms	26-Dec-2022	Poland	Test in progress	

The dataflow’s accessibility and editability depends on:

- the date<sup>1</sup> – there is a time window (e.g. a month) prior to the reporting obligation deadline when the report can be edited;
- the user authorization – a reporting obligation’s workflow configuration defines what user roles need to be granted to enable a user to view/edit a report;
- the workflow step (aka status) – a reporting obligation configuration’s workflow defines user role access level (e.g. read-only/write) for each status (e.g. user role may be authorized to edit a report in the DRAFT status but read-only in the IN REVIEW status)
- the sensitivity – to access reports containing Sensitive Non-Classified data, in addition to the user role defined in a workflow, the user needs to be a member of the group indicated in the reporting obligation configuration.

A campaign can also be accessed from the “Reports” menu. The dataflows can be also accessed from within a campaign where they are listed. In such a case the selected dataflow will be opened in a new browser tab for convenience.

*Example: 2023 NECPR Campaign is the report of the “Energy & Climate Progress” with the deadline on the March the 15<sup>th</sup> 2023 named “NECPR Campaign”*

## 2.4. Report Details

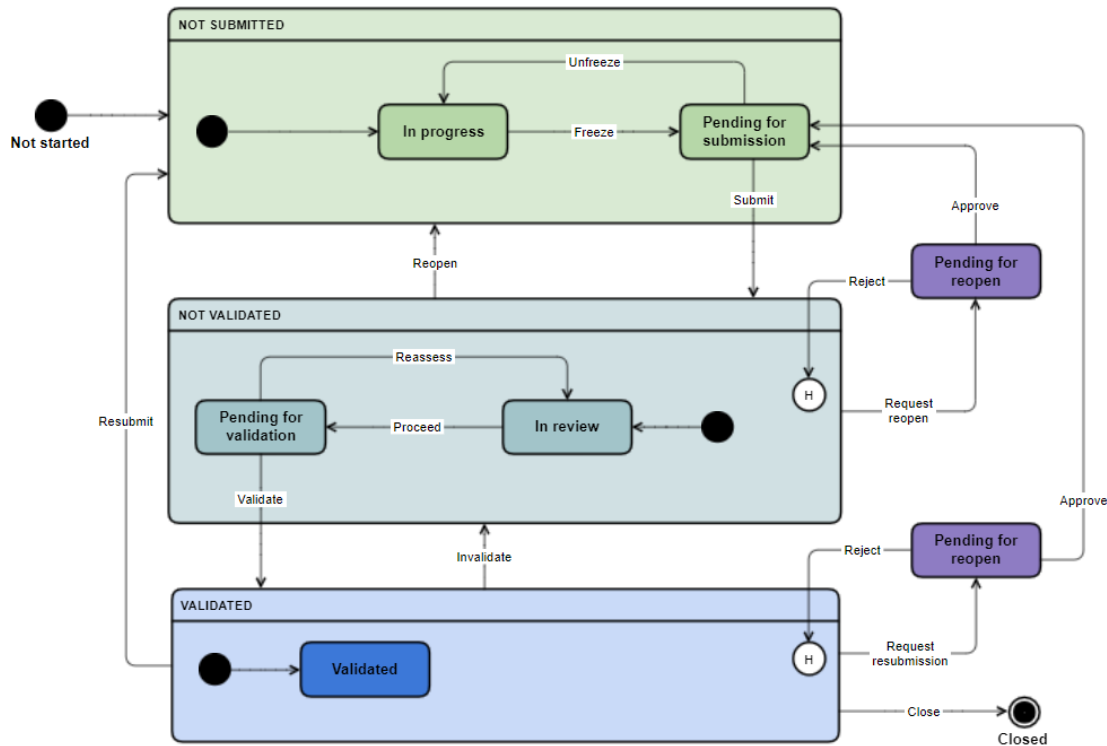
When the user accesses a dataflow then its reporting page is displayed. Its layout and details may differ between different reporting obligations. Nevertheless, it contains sections and elements that can be distinguished:

1. country selection that enables an authorized user to change the reporting context from one country to the another (see section 1.6),
2. reporting obligation information (e.g. type, deliverable status, deadline),
3. reporting participants and communication (e.g. comments),
4. report actions enabling user to fire workflow transitions (i.e. change status) or perform actions specific to current workflow step,
5. report data section customized for specific reporting obligation data collection (e.g. a file upload form, a web form, a table using a web form to be populated with records) – this is the place where reporters provide information to be reported.

## 2.5. Organizing the reporting network

Each dataflow is processed in accordance with a preconfigured workflow (which may be to some point customized for specific country work delegation needs – but can't be changed once report is started) and User Roles (to define workflow step read/write access level and user privileges) as requested by reporting obligation business manager.

*Example: User Roles and standard workflow for NECPR*



Workflow Role	Role Purpose	Required Request Approvals
MS Lead Reporter for Annex <annex number>	MS reporting participant who is authorized to submit a specific Annex report to EC	Either other Lead Reporter for Annex <annex number> from user's country or EC Coordinator
MS Supporting Reporter for Annex <annex number>	MS specific annex reporting participant who is not authorized to submit a report to EC	Either Lead Reporter for Annex <annex number> from user's country or EC Coordinator
MS Viewer for Annex <annex number>	User authorized to view a specific annex report	Either other Lead Reporter for Annex <annex number> from user's country or EC Coordinator
External Reviewer	External reviewer (e.g. consultant working on	EC Coordinator

	Commission’s behalf or auditor)	
EC Reviewer	EC subject matter expert performing assessment	EC Coordinator
EC Data Steward	NECPR data steward	EC Coordinator
EC Coordinator	NECPR processing coordinator	Business Manager
NECPR Admin	Support team member	Product Owner or Development Team Coordinator

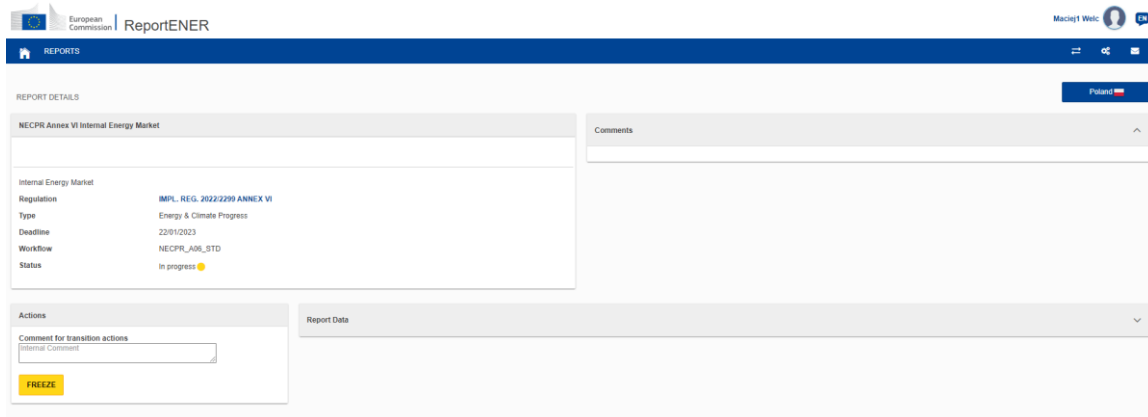
## 2.6. Technical details of reporting

### 2.6.1. Dataflow layout

The reporting dataflow layout is composed with sections:

- 1) the dataflow information (e.g. deadline, link to underlying regulation),
- 2) the workflow transition comments (e.g. for submission or reopening)
- 3) the actions (e.g. to trigger workflow transition),
- 4) the report data (i.e. the content being reported).

If the user is authorized there is also the country selector that allows user to switch to the other country report for the same obligation and deadline.

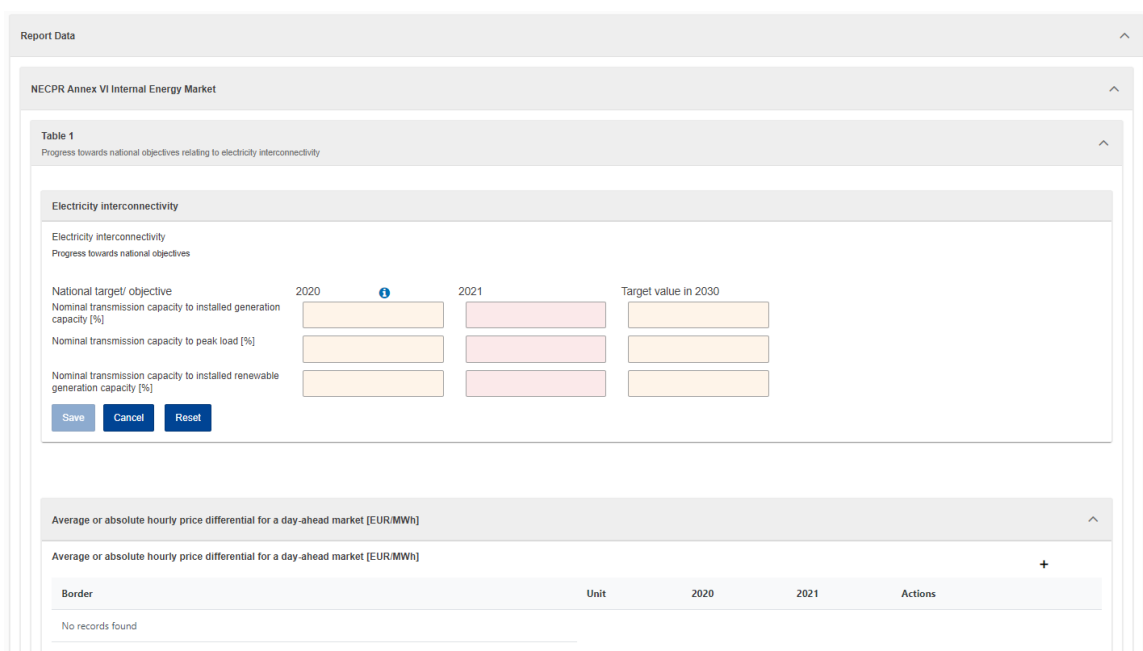
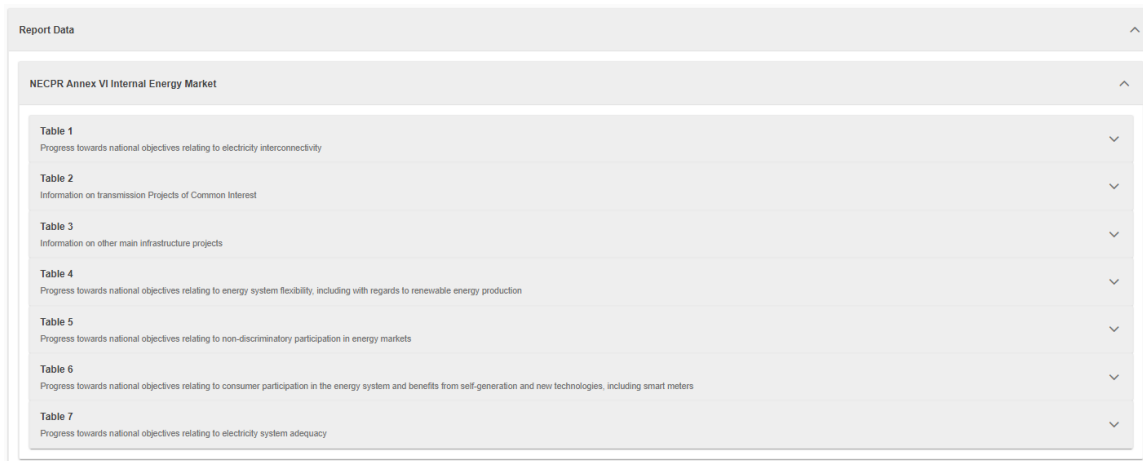


### 2.6.2. Report data collection with web forms

#### 2.6.2.1. Report data section composition

The report data section can be composed with one or more reports. Each report include sections that aggregate one or more web forms.

*Example: The “NECPR Annex VI Internal Energy Market” consists of 7 sections. The “Table 1” section contains the “Electricity interconnectivity” form and “Average or absolute hourly price differential for a day-ahead market [EUR/MWh]” form table.*



### 2.6.2.2. Filling web form

Each web form is composed with form fields that are configured to be:

- 1) mandatory (with a red background) – a form can't be saved until all form's mandatory field values are provided,
- 2) requisite (with a yellow background) – a form doesn't require values to be provided for these fields, just indicate that they are expected to be provided (e.g. if available, applicable) from the reporting perspective,
- 3) optional (with a white background) – neither a form nor reporting require these field values.

Name \*

Description \*

Art. 22 relevance \*

Target Year \*

Status \*

Policies which drove setting the objective(where relevant)

Union policy \*

National policy

Entity responsible for achieving the objective \*

Energy sources and fuels covered \*

Furthermore a form may have custom validation rules. These can be:

- a) form validation rules – if violated (example: details not provided if “other” is selected) a form can’t be saved and the error message and icon is displayed.

Art. 22 relevance \*

Status \*

**Data can not be saved**

✘ Provided data are incorrect. Please check each ⓘ for details.

- b) report validation rules – if violated (example: for instance to confirm requisite field is not applicable when not filled in) a user is asked for a confirmation before a form is saved.

PaM name (Local language) \* | 5656565

Confirmation Required

- Mandatory fuel information is not provided.
- Mandatory implementation period start date is not provided.
- Mandatory implementation period end date is not provided.

Are you sure you want to proceed?

### 2.6.2.3. Form table

A form table is a way that ReportENER collects multiple records for the same form. If the Add new record is requested the underlying form pops up. Once a form is saved a table row is added that can later be edited or removed.

National energy security targets/objectives					
Name	Entity Responsible	Target Year	Status	Sources and Fuels	Actions
Name1	Entity	2028	PLANNED	ELECTRICITY,GAS	

In some cases there can be a Master-Detail bond between form tables. In such a case Detail form table records represent information referring to a specific Master form table record. In such a case Detail form table header and content would refer to the selected (and highlighted) Master form table record.

*Example: The “National energy security targets/objectives” is a Master table form for the “... quantifiable indicator” and the “... non- quantifiable indicator” Detail table forms. Each Detail table forms has one entry corresponding to Master entry “Name1” and no entry corresponding to Master entry “Name2”.*

**NOTE:** to enter information in the Detail table forms, information should first be entered in the respective Master table form.

*Example: First “National energy security targets/objectives” should be entered in Master table form, before related “indicators can be added in the Detail table forms.*

National energy security targets/objectives					
Name	Entity Responsible	Target Year	Status	Sources and Fuels	Actions
Name1	Entity	2028	PLANNED	ELECTRICITY,GAS	
Name2	Entity		EXPIRED	NUCLEAR	

Name1 quantifiable indicator							
Indicator	Unit	2020	2021	2022	Target Value	Target Year	Actions
Indicator	Percentage					2024	

Name1 non-quantifiable indicator				
Indicator/Milestone	Description	Target year	Progress Status	Actions
Milestone 1.1	Milestone 1.1 description	2020	Ongoing	

National energy security targets/objectives					
Name	Entity Responsible	Target Year	Status	Sources and Fuels	Actions
Name1	Entity	2028	PLANNED	ELECTRICITY,GAS	
Name2	Entity		EXPIRED	NUCLEAR	

Name2 quantifiable indicator							
Indicator	Unit	2020	2021	2022	Target Value	Target Year	Actions
No records found							

Name2 non-quantifiable indicator				
Indicator/Milestone	Description	Target year	Progress Status	Actions
No records found				

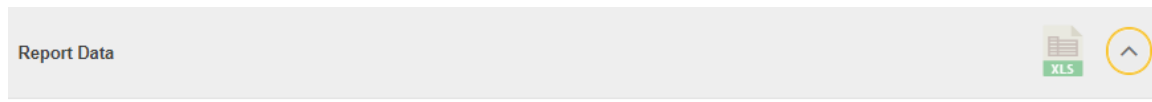
## 2.7. Data export

Authorised users can export the current data status of the report to an Excel workbook at any time.

The data export function is available by either clicking on the Excel icon in the report list in the Details column for the report to be exported

Name ↑↓	Type ↑↓	Deadline ↑↓	Country ↑↓	Status ↑↓	Progress Info ↑↓	Details
<input type="text" value="necpr"/>		<input type="text" value="Deadline"/>		<input type="text"/>	<input type="text" value="Select"/>	
NECPR Annex VI Internal Energy Market	Energy & Climate Progress	15-Mar-2023	Estonia	<span style="color: yellow;">●</span> In review	SUBMITTED	
NECPR Annex XVIII Energy Poverty	Energy & Climate Progress	15-Mar-2023	Estonia	<span style="color: yellow;">●</span> In review	SUBMITTED	
NECPR Annex V Energy Security	Energy & Climate Progress	15-Mar-2023	Estonia	<span style="color: yellow;">●</span> In review	SUBMITTED	

or from the dataflow by clicking on the Excel icon in the header of the Report Data area.



When the campaign data export function is called, all data flows to which the calling user has access are included.



### 2.7.1. Single country data export

There are different data to be exported scope options available for single country:

#### Data Export Scope

Please select which country data should be included in the export file

Poland

Please select which data should be included in the export file

- Current state
- Latest submission
- Selected submission(s)

Cancel

Export

- current state – the AS IS data state at the moment of data dump is exported,
- latest submission – each time report is being (re)submitted its data snapshot is automatically generated; this option enables to include the latest saved snapshot into the data export scope,
- selected submission(s) – enables user to select not only the latest but also any of the snapshots reflecting previous submissions done by the specific country.

### 2.7.2. Multiple countries data export

When the export function is used by the user authorized to export multiple countries data then user is enabled to select which ones should be included.

#### Data Export Scope

Please select which country data should be included in the export file

Bulgaria, Croatia

- Unselect all
- Austria
- Belgium
- Bulgaria
- Croatia
- Cyprus
- Czechia
- Denmark
- Estonia
- Finland
- France
- Germany

Cancel

Export

The selected submission(s) option is not available in such a case (i.e. past submission are downloadable only when single country is selected).

**Data Export Scope**

---

Please select which country data should be included in the export file

Bulgaria, Croatia

Please select which data should be included in the export file

Current state  
 Latest submission  
 Selected submission(s)

For the current state option user needs to decide whether each country data should be exported to a separate file or consolidated to as few files as possible (i.e. number of files would depend on how many workflows is in use for particular dataflow; in such a case there is going to be a one file per workflow that would include all countries the workflow is applied to).

Please select which data should be included in the export file

Current state

Please select which data should be included in the export file

Separate export file per country  
 Data export consolidated into single file per workflow

### 3. THEMATIC GUIDELINES FOR REPORTING

This section provides the step-by-step guidelines for reporting. This includes visual guide of **how and where** to report in ReportENER as well as information on the **purpose of reporting** and guidance on **what to report**. This is structured as follows:

- Purpose,
- Guidance (screenshot and data format included),
- Good examples (where available),
- Not recommended (where available),
- Level of obligation (Mandatory, Mandatory if applicable, Mandatory if available, Voluntary).

#### 3.1. Introduction

This section provides guidance for reporting information on research, innovation and competitiveness, according to Annex VII of the Implementing Regulation. This includes information on:

- Table 1: Progress towards national objectives translating the SET Plan objectives and policies to a national context ;
- Table 2: Progress towards quantifiable national objectives for total public and, where available, private spending in research and innovation relating to clean energy technologies as well as for technology cost and performance development;
- Table 3: Progress towards non-quantifiable national objectives for total public and, where available, private spending in research and innovation relating to clean energy technologies as well as for technology cost and performance development;
- Table 4: Progress towards national objectives, including long-term targets for 2050 for the deployment of technologies for decarbonising energy- and carbon-intensive industrial sectors and, where applicable, for related carbon , capture, transport use, and storage infrastructure;
- Table 5: Progress towards national objectives with regard to competitiveness.

**Report Data** ^

**NECPR Annex VII Research, Innovation and Competitiveness** ^

- Table 1**  
Progress towards national objectives translating the SET Plan objectives and policies to a national context ^
- Table 2**  
Progress towards quantifiable national objectives for total public and, where available, private spending in research and innovation relating to clean energy technologies as well as for technology cost and performance develop... ^
- Table 3**  
Progress towards non-quantifiable national objectives for total public and, where available, private spending in research and innovation relating to clean energy technologies as well as for technology cost and performance dev... ^
- Table 4**  
Progress towards national objectives, including long-term targets for 2050 for the deployment of technologies for decarbonising energy- and carbon-intensive industrial sectors and, where applicable, for related carbon transpo... ^
- Table 5**  
Progress towards national objectives with regard to competitiveness ^

Data Privacy Statement - 3.1.3.5. SUMMARY - 2023-01-30 17:04

Figure 1: Overview of Annex VII data flow

### 3.2. Annex VII, Table 1: Progress towards national objectives translating the SET Plan objectives and policies to a national context

**Table 1**  
Progress towards national objectives translating the SET Plan objectives and policies to a national context ^

**RIC target/objective**

RIC target/objective +

Name	Supported technologies	Actions
No records found		

**National target/objective indicator** ^

National target/objective indicator

Name	Unit	Reference year	Reference value	Actions
No records found				

Figure 2: Webform for Annex 7 - table 1

#### Purpose of the Table

The purpose of this table is for Member States to provide quantitative and qualitative information on:

- The national target(s)/objective(s) that translate the SET Plan objectives defined in the Implementation Plans dedicated to the SET Plan technologies<sup>(2)</sup> to a national context.
- How the national target(s)/objective(s) supports the implementation of the Energy Union R&I priorities.
- Progress towards the achievement of the target(s)/objective(s), based on progress indicator(s) when applicable.

In case Member States are part of SET Plan Implementation Working Groups, they are highly incentivised to report in this table the Working Groups and their progress in them, even if national objectives in the same area have not been set.

If no target(s)/objectives(s) were stated in the latest NECP, but have been subsequently introduced, they should be included in this Table.

RIC target/objective

Type SET Plan translating

Name \* 1.1 120

Description \* 1.2 120

Supported technologies 1.3 ?

Other technologies 1.3(other) 150

Progress \* 1.4 120 ?

Expected impact N/A 120 ?

General comments 1.5 120

Add Cancel

Figure 3: webform for Annex VII - table 1

### 3.2.1. FIELD 1.1: Name of national target/ objective

#### Purpose

The purpose of this field is for the Member State to provide:

- The name of the national target/objective, specifying where relevant the target year for the target/objective (e.g. 2030, 2040, 2050).

#### Guidance, including format of the data

- Each national target/objective must have a unique name.

<sup>2</sup> [SET Plan documents \(europa.eu\)](http://europa.eu)

- The name has to allow a clear and precise understanding on what the target/objective aims to achieve.
- The name must be comprehensible for interested members of the public and ideally should only consist of a few words.
- If a target/objective has been embedded into a legal act (e.g. law, decree, regulation), it is good practice to report the exact name of the legal act, preferably in English.
- Where Member States have more than one target/objective, and even when more than one target/objective are related to the same SET Plan objective and policy, each target/objective will have to be added into a separate row i.e. each row in the template represents a separate target/objective.
- If no target(s)/objectives(s) were stated in the latest NECP, but have been consequently introduced, then the new target(s)/objective(s) should be stated.

Data format: text, max len 300.

### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

#### *3.2.2. FIELD 1.2: Description*

### **Purpose**

The description has to allow a clear and precise understanding on what the target/objective aims to achieve and it must be comprehensible for interested members of the public. The purpose of this field is for the Member State to provide;

- Concise and precise description of the national target/objective.
- Information on how the national target/objective aims at supporting the implementation of the SET Plan objectives and policies.
- Information on how the national target/objective translates the SET Plan objectives and policies to the national context.

### **Guidance, including format of the data**

More specifically, the following questions should be considered:

- What does the target/objective aim to achieve?
- What is the timeframe to achieve the target/objective? What is the objective to achieve by the target year? What is the baseline year and the corresponding value? What is the expected improvement between the baseline and the target value (e.g. in absolute value, in percentage terms).
- How is it the target/objective implemented?
  - What are the milestones and deliverables set to achieve the national target/objective?
- How is the target/objective related to the SET Plan objectives and policies defined in the Implementation Plans dedicated to the SET Plan technologies<sup>3</sup>?

---

<sup>3</sup> [SET Plan documents \(europa.eu\)](http://europa.eu)

- How does the target/objective translate the SET Plan objectives and policies to the national context?
- What are the policies and actions in place/ to be set to support the achievement of the target/objective?

To ensure conciseness and clarity, Member States are recommended to make appropriate use of the references/links to documents and websites with a more detailed description of the national target/objective. Member States are incentivised to provide this information in the Field 7: General Comments.

Data format: text, max len 800, lines 5.

**Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set), and if the FIELD 1.1 has been filled.

*3.2.3. FIELD 1.3: Supported Energy Union R&I priority & technologies*

**Purpose**

The purpose of this field is for the Member State to indicate:

- which Energy Union R&I priority(ies) - as defined in the Energy Union package<sup>4</sup> - is supported by the national target/objective as named and described in Field 1.1 and Field 1.2.
- which clean and low carbon energy technology(ies) is supported by the national target/objective listed in the Field 1.1 and described in the Field 1.2.

**Guidance, including format of the data**

Member States have to select one or more options from the following table:

*Table 1: Energy Union R&I priorities and clean and low-carbon energy technologies*

• No.1 in renewables
○ Photovoltaics
○ Geothermal heat & power
○ Wind (onshore and offshore)
○ Ocean energy
○ Concentrated solar power & heat { } solar thermal electricity { - }
○ Hydropower and pumped hydro-storage
○ Renewable fuels of non-biological origin (other than hydrogen)
○ Bioenergy

<sup>4</sup> <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52015DC0080>

○ Sustainable biofuels
○ (No.1 in renewables) Advanced biofuels
○ Direct Solar fuels
○ Other - No 1 in renewables
● Smart systems
○ Advanced metering infrastructure (including smart meters)
○ Building/home energy management systems
○ Grid-scale energy storage
○ Direct current (DC) technologies
○ EV charging infrastructure
○ Efficient (smart) electrical power transmission
○ Efficient (smart) electrical power distribution
○ Other - Smart systems
● Energy efficiency
○ Integration of renewables in buildings
○ Thermal performance of building
○ Appliances & lighting
○ Heat pumps
○ Other HVAC (not heat pumps)
○ Energy efficiency in industry
○ Industrial and district heat & cold management
○ Other - Energy efficiency
● Sustainable transport
○ Batteries
○ Electric vehicles
○ Road transport (non-EV)
○ Rail transport
○ Shipping
○ Aviation
○ (Sustainable transport) Advanced biofuels



○ Solar fuels (direct)
○ Renewable hydrogen
○ Renewable fuels of non-biological origin (other)
○ Other - Sustainable transport
● CCUS
○ CCS
○ CCU
○ Other - CCUS
● Nuclear
○ Nuclear fusion
○ Small modular reactors
○ Decommissioning of nuclear installations
○ Nuclear fission (focus on safety, security, radiation protection)
○ Other - Nuclear

Data format: text (drop-down); other technologies: text, max len 150.

### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

#### *3.2.4. FIELD 1.4: Progress towards target/ objective*

### **Purpose**

The purpose of this field is for Members States to provide quantitative and qualitative information on the progress towards the achievement of national target(s)/objective(s).

### **Guidance, including format of the data**

In Field 1.4, Member States have to provide concise and precise updated information on the progress towards the achievement of the national target/objective listed in Field 1.1, and based on the description provided in Field 1.2, including:

- Information on progress made on the milestones and deliverables to achieve the target/objective
- Information on the impact of policies and actions aims at supporting the achievement of the target/objective.
- Information on whether the progress made is on track compared to the planned timeframe, including compared to the value in the base year.
- Information on barriers hindering the achievements of the target/objective and solutions to overcome them.

Details on the progress made towards the national target/objective included in this Field have to also be presented in the next fields through the reporting on specific progress indicators as identified by the Member States as relevant to the national target/objective.

Data format: text, max len 500, lines 5.

### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

#### *3.2.5. FIELD 1.5: General Comments*

### **Purpose**

Member States have the possibility to provide any remarks, comments, explanations to increase the transparency and comprehensiveness of the reported progress towards the national target/objective, or any additional relevant information which was not possible to provide in the other sections of the reporting template.

### **Guidance**

Here the following issues could be mentioned:

- Reference to the accompanying reports providing further information on general national target/objective situation or information on specific policies and actions relating to the national target/objective.
- Any background information relevant for the national target/objective.
- Any amendments made to the allocated budget or timeframe.
- Any information on how the national target/objective supports EU collaboration in the field, including whether it is part of a larger initiative/research plan.
- Any information on whether the progress made on the indicator is on track to achieve the target/objective as planned by Member States. If not on track the comment should include the reason why.
- Any information on who are the actors involved.
- Any information on which problem and challenges is the target/objective addressing.

Data format: text, max len 120, lines 3.

### **Level of obligation**

Voluntary

3.2.6. *FIELD 1.6: Progress indicator(s) (Name of indicator to monitor progress, Value of indicator, Reference year, Unit)*

a indicators

Name \* 1.6a

Unit \* 1.6b

Reference year \* 1.6c

Reference value \* 1.6d

Add Cancel

Figure 4: webform for Annex VII table 1 (progress indicators)

### **Purpose**

The purpose of this field is for the Member State to provide information on

- i) the indicators – if any - that Member States have set to monitor progress towards achieving the national target/objective as described in Field 2 and Field 5, and
- ii) the progress achieved towards these indicators, including whether the progress made is on track to achieve the target/objective.

### **Guidance, including format of the data**

The indicator(s) listed in the Field 6 have to be used by Member States each year against the set national target(s)/objective(s), so that yearly progress can be measured.

Where Member States have set more than one indicator used for monitoring progress to achieve the same target/objective over time, they will need to assess progress achieved against all these indicators.

In Field 6 Members States have to include:

- iii) The ‘Name of indicator to monitor progress’. This sub-field requires to provide the name of the indicator – if any – set to monitor progress towards achieving the national target/objective over time.

- iv) The ‘Value of indicator’. This sub-field requires to provide a quantitative value against the indicator in the year specified in the field ‘Reference year’.
- v) The ‘Reference year’. This sub-field requires to provide the year corresponding to the quantitative value indicated in the “Value of indicator” field. Member States have to report on the most updated data available.
- vi) The “Unit”. This sub-field requires to specify the indicator unit (e.g. GW, TWh, EUR, % as share of , Number of.. )
- vii) The “Value of indicator” corresponding to the “Reference year”.

**Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

### 3.3. Annex VII, Table 2: Progress towards quantifiable national objectives for total public and, where available, private spending in research and innovation relating to clean energy technologies as well as for technology cost and performance development

#### Purpose of the table

The purpose of this table is for Member States to provide quantitative information on:

- Latest data available on total yearly public and private R&I expenditures in:
  - i) The Energy Union R&I priorities - at aggregated level.
  - ii) The Energy Union R&I priorities – disaggregated by R&I priority.
  - iii) Specific clean and low-carbon energy technologies and solutions.
- Future (e.g. 2030, 2040, 2050) target(s)/objective(s) on public and private R&I expenditure in:
  - i) The Energy Union R&I priorities - at aggregated level.
  - ii) The Energy Union R&I priorities – disaggregated by R&I priority.
  - iii) Specific clean and low-carbon energy technologies and solutions.

Note that the expenditure have to not be reported as cumulative values, but rather as a contribution to the specific year.

If no target(s)/objectives(s) were stated in the latest NECP, but have been consequently introduced, then the new target(s)/objective(s) should be stated.

Research, Innovation and Competitiveness  
Other nationally set quantifiable objectives and targets

Target/objective \*  200

Unit  30

Target Year

2020	2021	Target Value
<input type="text" value="2.4"/>	<input type="text" value="2.5"/>	<input type="text" value="2.6"/>

Figure 5: Webform for Annex VII table 2 (predetined objectives)

Figure 6: Webform for Annex VII table 2 (other objectives)

### 3.3.1. FIELD 2.1: Name of national target/ objective

#### **Purpose**

#### **Guidance**

Field 2.1 is structured for Member States to report on a number of predefined elements of public and private R&I related to i) the Energy Union R&I priorities at aggregated level and includes the following:

- i) **Public national R&I expenditure:**
  - Total Yearly R&I public expenditure in clean and low carbon energy technologies:
    - o in absolute value.
    - o as a percentage share of overall public R&I expenditure.
    - o as a percentage share of annual GDP.
- ii) **Private R&I expenditure:**
  - Total Yearly R&I private expenditure in clean energy and low carbon technologies
    - o in absolute value.
    - o as a percentage share of overall private R&I expenditure.
    - o as a percentage share of annual GDP.

In addition, Member States should fill in the “Other nationally set objectives and targets” to report on:

- iii)
  - o Public and Private R&I expenditure on specific Energy Union Priority, as relevant for Member States to highlight.
  - o Public and Private R&I expenditure on specific clean and low-carbon energy technologies and solutions, as relevant for Member States to highlight.

In this case Member States are highly incentivised to follow the same structure as (i) and (ii), and to include in the following information:

- o Specify the Energy Union Priority and/or the clean and low-carbon energy technologies and solutions (see Tables 1 and 2) to which the reported figures in the subsequent fields refer to.
- o Specify whether the reported figures in the subsequent fields come from public or private sources.
- o Specify whether the figures will be reported in e.g. absolute term and/or as a percentage of overall public/private R&I spending and/or as a percentage share of the annual GDP.

Non-quantifiable national target(s)/ objective(s) have to be reported in Table 3.

#### **Level of obligation**

Public R&I expenditure and Other nationally set objectives and targets are mandatory reporting requirements, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

Private R&I expenditure is a voluntary reporting requirement.

### 3.3.2. *FIELD 2.2: Unit*

#### **Purpose**

Predetermined to guide Member States in filling the next fields, except for “Other nationally set objectives and targets”

In this latter, the purpose of this field is for the Member State to specify the unit against the “other nationally set objectives and targets”.

#### **Guidance**

Field 2.2 corresponding to i) “Public R&I expenditure”, and ii) “Private R&I expenditure” and sub-fields is pre-determined to guide Member States in reporting quantitative figures, and includes:

Public R&I expenditure

- Million EUR
- % (as share of overall Public R&I)
- % (as share of annual GDP)

Private R&I expenditure:

- Million EUR
- % (as share of overall Private R&I)
- % (as share of annual GDP)

Field 2.2 corresponding to iii) “Other nationally set objectives and targets” is not pre-determined. In this case, Member States have to specify the unit corresponding to the figures to include in the next fields. Member States have to provide – where available and possible – a quantitative value (e.g. in absolute value and/ or as percentage).

Good examples for units include:

- Million Euro
- % share of e.g. overall public R&I expenditure, clean and low carbon energy technology R&I expenditure, GDP.

#### **Level of obligation**

“Public R&I expenditure” and “Other nationally set objectives and targets” are Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

“Private R&I” expenditure is a voluntary reporting requirement.

### 3.3.3. *FIELD 2.3 & 2.4: Year (X-3, X-2)*

#### **Purpose**

The purpose of this field is for the Member State to report a value against the year for progress towards the national target/objective.

#### **Guidance, including format of the data**

Member States have to report a value corresponding to the unit and specification requirements for each national target/objective.

#### **Level of obligation**

“Public R&I expenditure” and “Other nationally set objectives and targets” are Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

“Private R&I” expenditure is a voluntary reporting requirement.

#### *3.3.4. FIELD 2.5 & 2.6: Target value/year*

#### **Purpose**

The purpose of this field is for the Member State to provide quantitative values for national targets set for expenditure in R&I for a corresponding target year.

#### **Guidance**

In this field Member States have to include:

- quantitative values corresponding to the national target/objective set for R&I expenditure for a future target year (e.g. 2030, 2040, 2050),
- the target year.

#### **Level of obligation**

“Public R&I expenditure” and “Other nationally set objectives and targets” are Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

“Private R&I” expenditure is a voluntary reporting requirement.

#### *3.3.5. FIELD 2.7: General Comments*

#### **Purpose**

The purpose of this field is for the Member State to provide any remarks, comments, explanations to increase the transparency and comprehensiveness of the reported progress towards the quantifiable national target/objective, or any additional relevant information, which was not possible to provide in the other sections of the reporting template.

#### **Guidance**

Here the following could be mentioned:



- Reference to the accompanying reports providing further information on general national target/objective situation or information on specific policies and actions relating to the national target/objective.
- Any background information relevant for the national target/objective.
- Any amendments made to e.g. the allocated budget or timeframe.
- Any information on how the national target/objective supports EU collaboration in the field, including whether it is part of a larger initiative/research plan.

Any information on whether the progress made on the indicator is on track to achieve the target/objective as planned by Member States. If not on track the comment should include the reasons why.

**Level of obligation**

Voluntary

### **3.4. Annex VII, Table 3: Progress towards non-quantifiable national objectives for total public and, where available, private spending in research and innovation relating to clean energy technologies as well as for technology cost and performance development**

#### **Purpose of the Table**

The purpose of this table is for Member States to provide information on:

- The national non-quantifiable target(s)/objective(s) that aims at supporting and strengthening the clean and low-carbon energy R&I ecosystem, including:
  - o Non-quantifiable target(s)/objective(s) that foster R&I in the field of clean and low-carbon energy technologies and solutions.
  - o Non-quantifiable R&I target(s)/objective(s) that specifically target technology cost and performance development.
- How the non-quantifiable national target(s)/objective(s) support the implementation of the Energy Union R&I priorities.
- Progress towards the achievement of the non-quantifiable target(s)/objective(s).
- The expected impact of the non-quantifiable target(s)/objective(s) on the clean and low-carbon energy innovation ecosystem, including the expected contribution to the climate and energy 2030 and 2050 targets.

The national non-quantifiable target(s)/objective(s) could be related, for example to:

- Improve access to finance for start-ups and scale-ups supporting innovative clean energy solutions.
- Set up regulatory sandboxes to allow innovators to experiment new ideas and solutions.
- Enhance an ecosystem able to strengthen and better connect innovation players within the MS and in collaboration with other MS.
- Increase support for women innovators and reduce the gender imbalance in the field of clean energy.
- Improve the regulatory framework and the financial mechanisms to exploit the full potential of the innovation ecosystem.

If no target(s)/objectives(s) were stated in the latest NECP, but have been subsequently introduced, they should be included in this Table.

Quantifiable national target(s)/ objectives(s) have to be reported in Table 2.

RIC target/objective

Type: Spending

Name \* 3.1 (120)

Description \* 3.2 (120)

Supported technologies 3.3 (120) ?

Other technologies 3.3 (other) (150)

Progress \* 3.4 (120) ?

Expected impact 3.5 (120) ?

General comments 3.6 (120)

Add Cancel

Figure 7: webform Annex VII table 3

### 3.4.1. FIELD 3.1: Name of national target/ objective

#### Purpose

The purpose of this field is for the Member State to name the non-quantifiable national target(s)/objective(s).

#### Guidance

In this field Member States have to include:

- The name of the national target/objective, specifying where relevant the target year for the target/objective (e.g. 2030, 2040, 2050).

And, more specifically:

- Each national target/objective must have a unique name.
- The name has to allow a clear and precise understanding on what the target/objective aims to achieve.
- The name must be comprehensible for interested members of the public and ideally should only consist of a few words.
- If a target/objective has been embedded into a legal act (e.g. law, decree, regulation), it is good practice to report its exact name, preferably in English.

- Where Member States have more than one target/objective, and even when more than one target/objective are related to the same SET Plan objective and policy, each target/objective will have to be added into a separate row i.e. each row in the template represents a separate target/objective.
- If no target(s)/objectives(s) were stated in the latest NECP, but have been consequently introduced, then the new target(s)/objective(s) should be stated.

### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

#### *3.4.2. FIELD 3.2: Description*

### **Purpose**

The purpose of this field is for the Member State to give context and provide further detail of the non-quantifiable national target(s)/objective(s).

### **Guidance**

In this field Member States have to include:

- Concise and precise description of the national target/objective.
- Information on how the national target/objective aims at strengthening the clean energy innovation ecosystem, and fostering research and innovation in the field of clean and low-carbon energy.
- Information on how the national target/objective aims at reducing technology cost and increasing performance development in the field of clean and low-carbon energy.

More specifically, the following questions should be answered:

- What does the target/objective aim to achieve?
- What is the timeframe to achieve the target/objective? What is the objective to achieve by the target year? What is the baseline year and the corresponding value? What is the expected improvement between the baseline and the target value (e.g. in absolute value, in percentage terms).
- Which problem and challenges is the target/objective addressing?
- How is the target/objective implemented?
  - What are the milestones and deliverables set to achieve the national target/objective?
  - What are the policies and actions in place/ to be set to support the achievement of the target/objective?
- Who are the actors involved?
- How does the target/objective aim at supporting the Energy Union R&I priorities and/or specific clean and low-carbon energy technologies and solutions?
- How does the target/objective aim at supporting the achievement of the 2030 and 2050 climate and energy objectives?

The description has to allow a clear and precise understanding on what the target/objective aims to achieve and it must be comprehensible for interested members of the public.

To ensure conciseness and clarity, Member States are recommended to make appropriate use of the references/links to documents and websites with a more detailed description of the national target/objective.

### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

### 3.4.3. *FIELD 3.3: Supported Energy Union R&I priority & technologies*

#### **Purpose**

The purpose of this field is for the Member State to indicate:

- which Energy Union R&I priority(ies) - as defined in the Energy Union package<sup>5</sup> - is supported by the national target/objective as named and described in Field 3.1 and Field 3.2.
- which clean and low carbon energy technology(ies) is supported by the national target/objective listed in the Field 3.1 and described in the Field 3.2.

#### **Guidance, including format of the data**

Member States have to select one or more options from Table 1: Energy Union R&I priorities and clean and low-carbon energy technologies

*Data format: text (drop-down)*

#### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

### 3.4.4. *FIELD 3.4: Progress towards target/ objective*

#### **Purpose**

The purpose of this field is for Members States to provide quantitative and qualitative information on the progress towards the achievement of national target(s)/objective(s).

#### **Guidance, including format of the data**

In this field Member States have to provide concise and precise updated information on the progress towards the achievement of the national target/objective listed in Field 3.1, and based on the description provided in Field 3.2, including:

- Information on progress made on the milestones and deliverables to achieve the target/objective
- Information on the impact of policies and actions aims at supporting the achievement of the target/objective.
- Information on whether the progress made is on track compared to the planned timeframe.
- Information on barriers hindering the achievements of the target/objective and solutions to overcome them.

Details on the progress made towards the national target/objective included in this Field have to also be presented in the next fields through the reporting on specific progress indicators as identified by the Member States as relevant to the national target/objective.

---

<sup>5</sup> <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52015DC0080>

Data format: text.

**Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

*3.4.5. FIELD 3.5: Expected impacts of the set objective*

**Purpose**

The purpose of this field for Member States to provide a broader view of impacts created by the set national target/objective.

**Guidance, including format of the data**

In this field Member States have to include information on the expected impacts of the non-quantifiable national target/objective within a specific timeframe on, for example:

- the socio-economic aspects of the clean energy sector/ the whole economy.
- the clean energy innovation ecosystem as whole.
- the development, scale-up, deployment, and market uptake of specific clean and low-carbon energy technologies and solutions.
- the achievement of the 2030 and 2050 climate and energy targets.
- where relevant, on other dimensions of the NECPs, as well as on any other sector and domain on which an impact is expected.

The expected impacts should be as precise as possible, include quantitative impacts if any, and must be comprehensible for interested members of the public.

**Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

### 3.5. Annex VII, Table 4: Progress towards national objectives, including long-term targets for 2050 for the deployment of technologies for decarbonising energy- and carbon-intensive industrial sectors and, where applicable, for related carbon transport, use, and storage infrastructure

#### Purpose of the Table

The purpose of this table is for Member States to provide quantitative and qualitative information on:

- National 2050 objectives related to the promotion of clean energy technologies and solutions;
- National objectives, including long-term targets for 2050 for the deployment of technologies for decarbonising energy- and carbon-intensive industrial sectors and, where applicable, for related carbon transport, use, and storage infrastructure.
- Progress towards the achievement of the target(s)/objective(s), based on progress indicator(s) when applicable.

Elements such as energy efficiency, carbon capture and storage, electrification as well as technologies that will contribute towards decarbonisation should be included.

The national target(s)/objective(s) reported in this Table should align with the national 2050 long-term national and climate strategy developed by Member States.

If no target(s)/objectives(s) were stated in the latest NECP, but have been subsequently introduced, they should be included in this Table.

RIC target/objective

Type

Deployment of technologies

Name \* 4.1

Description \* 4.2

Supported technologies N/A

Other technologies N/A

Progress \* 4.3

Expected impact N/A

General comments 4.4

Add Cancel

Figure 8: webform Annex VII, table 4

### 3.5.1. *FIELD 4.1: Name of national target / objective*

#### **Purpose**

The purpose of this field is for the Member State to provide the name of a national long-term target/objective.

#### **Guidance, including format of the data**

In the Field 1 Member States have to include the name of the national target/objective, specifying where relevant the target year for the target/objective (e.g. 2030, 2040, 2050).

And:

- Each national target/objective must have a unique name.
- The name has to allow a clear and precise understanding on what the target/objective aims to achieve.
- The name must be comprehensible for interested members of the public and ideally should only consist of a few words.
- If a target/objective has been embedded into a legal act (e.g. law, decree, regulation), it is good practice to report its the exact name of the legal act, preferably in English.
- Where Member States have more than one target/objective, each target/objective will have to be added into a separate row i.e. each row in the template represents a separate target/objective.
- If no target(s)/objectives(s) were stated in the latest NECP, but have been consequently introduced, then the new target(s)/objective(s) should be stated.

#### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

### 3.5.2. *FIELD 4.2: Description*

#### **Purpose**

The purpose of this field is for the Member State to give context and provide further detail of the national target/objective.

#### **Guidance, including format of the data**

In this field Member States have to include:

- Concise and precise description of the national target/objective.
- Information on how the national target/objective aims at promoting the development, scale-up, deployment and market uptake of clean energy technologies and solutions;
- Information on how the national target/objective aims at supporting the deployment of technologies for decarbonising energy- and carbon-intensive industrial sectors and, where applicable, for related carbon transport, use, and storage infrastructure.



- Information on how the national target/objective aims at supporting the 2050 national long-term energy and climate strategy.

More specifically, the following questions should be answered:

- What does the target/objective aim to achieve? How is the target/objective related to 2050 long-term national energy and climate strategy?
- Which technologies are targeted?
- Which sectors are targeted?
- What is the timeframe to achieve the target/objective? What is the objective to achieve by the target year? What is the baseline year and the corresponding value? What is the expected improvement between the baseline and the target value (e.g. in absolute value, in percentage terms).
- How is it the target/objective implemented?
  - What are the milestones and deliverables set to achieve the national target/objective?
  - What are the policies and actions in place/ to be set to support the achievement of the target/objective?
- Who are the actors involved?

The description has to allow a clear and precise understanding on what the target/objective aims to achieve and it must be comprehensible for interested members of the public.

To ensure conciseness and clarity, Member States are recommended to make appropriate use of the references/links to documents and websites with a more detailed description of the national target/objective. Member States are incentivised to provide this information in the Field General Comments.

#### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

#### *3.5.3. FIELD 4.3: Progress towards target/ objective*

#### **Purpose**

The purpose of this field is for the Member State to capture information on the progress achieved towards the national target/objective.

#### **Guidance, including format of the data**

In this field, Member States have to provide concise and precise updated information on the progress towards the achievement of the national target/objective listed in Field 4.1, and based on the description provided in Field 4.2, including:

- Information on progress made on the milestones and deliverables to achieve the target/objective
- Information on the impact of policies and actions aims at supporting the achievement of the target/objective.
- Information on whether the progress made is on track compared to the planned timeframe, including compared to the value in the base year.
- Information on barriers hindering the achievements of the target/objective and solutions to overcome them.

Details on the progress made towards the national target/objective included in this Field have to also be presented in the next fields through the reporting on specific progress indicators as identified by the Member States as relevant to the national target/objective.

### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

#### *3.5.4. FIELD 4.4: General Comments*

### **Purpose**

The purpose of this field is for the Member State to provide any remarks, comments, explanations to increase the transparency and comprehensiveness of the reported progress towards the quantifiable national target/objective, or any additional relevant information, which was not possible to provide in the other sections of the reporting template.

### **Guidance**

Here the following could be mentioned:

- Reference to the accompanying reports providing further information on general national target/objective situation or information on specific policies and actions relating to the national target/objective.
- Any background information relevant for the national target/objective.
- Any amendments made to the allocated budget or timeframe.
- Any information on how the national target/objective supports EU collaboration in the field, including whether it is part of a larger initiative/research plan.
- Any information on whether the progress made on the indicator is on track to achieve the target/objective as planned by Member States. If not on track the comment should include the reasons why.
- Any information on who are the actors involved.
- Any information on which problem and challenges is the target/objective addressing.

### **Level of obligation**

Voluntary

3.5.5. *FIELD 4.5: Progress indicator(s) (Name of indicator to monitor progress, Value of indicator, Reference year, Unit)*

**Purpose**

aaa indicators

Name \* 4.5a

Unit \* 4.5b

Reference year 4.5c

Reference value \* 4.5d

Add Cancel

Figure 9: webform Annex VII table 4 (progress indicators)

The purpose of this field is for the Member State to provide information on:

- i) the indicators – if any - that Member States have set to monitor progress towards achieving the national target/objective as described in Field 2 and Field 5.
- ii) the progress achieved towards these indicators, including whether the progress made is on track to achieve the target/objective.

**Guidance**

In this field, Member States have to provide detailed information on the indicator(s) – if any - used to monitor progress to achieve the national target/objective over time, also based on the information provided in the Field 4.2 and Field 4.3.

The indicator(s) listed in this field have to be used by Member States each year against the set national target(s)/objective(s), so that yearly progress can be measured.

Where Member States have set more than one indicator used for monitoring progress to achieve the same target/objective over time, they will need to assess progress achieved against all these indicators.

In the Field 4 Members States have to include:

- i) The ‘Name of indicator to monitor progress’. This sub-field requires to provide the name of the indicator(s) – if any – set to monitor progress towards achieving the national target/objective over time.

- ii) The ‘Value of indicator’. This sub-field requires to provide a quantitative value against the indicator in the year specified in the field ‘Reference year’.
- iii) The ‘Reference year’. This sub-field requires to provide the year corresponding to the quantitative value indicated in the “Value of indicator” field. Member States have to report on the most updated data available.
- iv) The “Unit”. This sub-field requires to specify the indicator unit (e.g. GW, TWh, EUR, % as share of , Number of.. )

**Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

### **3.6. Annex VII, Table 5: Progress towards national objectives with regard to competitiveness**

#### **Purpose of the Table**

The purpose of this table is for Member States to provide information on:

- The national target(s)/objective(s) that aim at strengthening the competitiveness of the clean energy sector as whole and of specific clean and low-carbon energy technologies.
- Progress towards the achievement of the target(s)/objective(s), based on progress indicator(s) when applicable.

The national target(s)/objective(s) in the area of competitiveness in the field of clean energy could be related for example to:

- Policy and regulatory framework supporting the scale-up and market up-take of clean and low-carbon energy technologies crucial to deliver on the twin green and digital transition, as well as policy and regulatory framework supporting the acceleration of the energy system transformation and integration.
- Human Capital and Skills (Employment, up-skilling and re-skilling, gender balance, labour productivity, energy poverty).
- Innovation ecosystem (Patenting activities, research publications, international collaborations, private sector participation, financial solutions).
- Presence and leadership in strategic clean and low-carbon energy value chain segment, including EU and Global market share.
- Turnover, Gross Value Added growth in clean and low-carbon energy technologies as well as in specific value chain segments.
- Environmental and Socio-economic sustainability.
- Resource efficiency and (in)dependence.
- Trade balance (import, exports) related to specific clean and low-carbon energy technologies and/or specific materials and components.

RIC target/objective

Type: Competitiveness

Name \* 5.1 120

Description \* 5.2 120

Supported technologies N/A 150 ?

Other technologies N/A 150

Progress \* 5.3 120 ?

Expected impact N/A 120 ?

General comments 5.4 120

Add Cancel

Figure 10: webform for Annex VII table 5

### 3.6.1. FIELD 5.1: Name of national target / objective

#### Purpose

The purpose of this field is to name and make clear to the reader the national target/objective aiming at enhancing the competitiveness of the clean energy sector.

#### Guidance

In this field Member States have to include the name of the national target/objective, specifying where relevant the target year for the target/objective (e.g. 2030, 2040, 2050).

And:

- Each national target/objective must have a unique name.
- The name has to allow a clear and precise understanding on what the target/objective aims to achieve.
- The name must be comprehensible for interested members of the public and ideally should only consist of a few words.
- If a target/objective has been embedded into a legal act (e.g. law, decree, regulation), it is good practice to report its the exact name of the legal act, preferably in English.

- Where Member States have more than one target/objective, each target/objective will have to be added into a separate row i.e. each row in the template represents a separate target/objective.
- If no target(s)/objectives(s) were stated in the latest NECP, but have been consequently introduced, then the new target(s)/objective(s) should be stated.

### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

#### *3.6.2. FIELD 5.2: Description*

### **Purpose**

The purpose of this field is to give context and provide further detail of the national target/objective with regard to competitiveness.

### **Guidance**

In this field Member States have to include:

- Concise and precise description of the national target/objective.
- Information on how the national target/objective aims at enhancing the competitiveness of the clean energy sector and of specific clean and low-carbon clean energy technologies and solutions.

More specifically, the following questions should be answered:

- What does the target/objective aim to achieve?
- Which technologies are targeted?
- Which sectors are targeted?
- What is the timeframe to achieve the target/objective? What is the objective to achieve by the target year? What is the baseline year and the corresponding value? What is the expected improvement between the baseline and the target value (e.g. in absolute value, in percentage terms).
- Which problem and challenges is the target/objective addressing?
- How is it the target/objective implemented?
  - What are the milestones and deliverables set to achieve the national target/objective?
  - What are the policies and actions in place/ to be set to support the achievement of the target/objective?
- 

Where relevant, Member States are also invited to include information on how the national target/objective can support the other dimensions of the NECPs.

The description has to allow a clear and precise understanding on what the target/objective aims to achieve and it must be comprehensible for interested members of the public.

To ensure conciseness and clarity, Member States are recommended to make appropriate use of the references/links to documents and websites with a more detailed description of the national target/objective. Member States are incentivised to provide this information in the Field General Comments.

### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

### 3.6.3. *FIELD 5.3: Progress towards target/ objective*

#### **Purpose**

The purpose of this field is for the Member State to give a qualitative description of the progress made up to the current situation towards the national target/objective with regard to competitiveness.

#### **Guidance, including format of the data**

In this field Member States have to provide concise and precise updated information available on the progress towards the achievement of the national target/objective listed in Field 5.1, also based on the description provided in Field 5.2, including:

- Information on progress made on the milestones and deliverables to achieve the target/objective
- Information on the impact of policies and actions aims at supporting the achievement of the target/objective.
- Information on whether the progress made is on track compared to the planned timeframe, including compared to the value in the base year.
- Information on barriers hindering the achievements of the target/objective and solutions to overcome them.

Details on the progress made towards the national target/objective included in this Field have to also be presented in quantitative terms the next fields through the reporting on specific progress indicators as identified by the Member States as relevant to the national target/objective.

Data format: text.

#### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

### 3.6.4. *FIELD 5.4: General Comments*

#### **Purpose**

The purpose of this field is for the Member State to provide any remarks, comments, explanations to increase the transparency and comprehensiveness of the reported progress towards the quantifiable national target/objective, or any additional relevant information, which was not possible to provide in the other sections of the reporting template.

#### **Guidance**

Here the following could be mentioned:

- Reference to the accompanying reports providing further information on general national target/objective situation or information on specific policies and actions relating to the national target/objective.



- Any background information relevant for the national target/objective.
- Any information on whether the progress made on the indicator is on track to achieve the target/objective as planned by Member States. If not on track the comment should include the reasons why.
- Any information on policy and/or financial mechanisms and instruments supporting the clean and low-carbon energy competitiveness.
- Any information on how the national target/objective supports EU collaboration in the field, including whether it is part of a larger initiative/ plan.
- Any information on who are the actors involved.
- Any information on which problem and challenges is the target/objective addressing.

### Level of obligation

Voluntary

3.6.5. *FIELD 5.5: Progress indicator(s) (Name of indicator to monitor progress, Value of indicator, Reference year, Unit)*

a indicators

Name \* 5.5a

Unit \* 5.5b

Reference year \* 5.5c

Reference value \* 5.5d

Add Cancel

Figure 11: webform for Annex VII table 5 (progress indicators)

### Purpose

The purpose of this field is for the Member State to provide the quantitative indicators, if any, that Member States have defined to monitor the progress towards achieving the national target(s)/objective(s) in the area of competitiveness, and the progress achieved towards these indicators..

### Guidance

In this field Member States have to provide detailed information on the indicator(s) – if any - used to monitor progress to achieve the national target/objective over time

specifically to monitor and assess competitiveness, also based on the information provided in the Field 5.2 and Field 5.3.

Progress indicators could include for example:

- Number of patents, scientific publications, international collaboration in scientific publications in clean and low-carbon energy technologies
- Employment rate in the clean energy sector, compared to e.g. a baseline reference and/or to other sectors, and/or as percentage share of the whole economy.
- Number of (leading) companies active in clean and low-carbon energy technologies and/or specific value chain segments.
- Number of start-ups in innovative solutions.
- Trade balance (EUR) in clean and low-carbon energy technologies (Export – Import).
- Positioning in the EU and Global market in terms of e.g. market share.

The indicator(s) listed in the Field 4 have to be used by Member States each year against the set national target(s)/objective(s), so that yearly progress can be measured.

Where Member States have set more than one indicator used for monitoring progress to achieve the same target/objective over time, they will need to assess progress achieved against all these indicators.

In this field Members States have to include:

- v) The ‘Name of indicator to monitor progress’. This sub-field requires to provide the name of the indicator(s) – if any – set to monitor progress towards achieving the national target/objective over time.
- vi) The ‘Value of indicator’. This sub-field requires to provide a quantitative value against the indicator in the year specified in the field ‘Reference year’.
- vii) The ‘Reference year’. This sub-field requires to provide the year corresponding to the quantitative value indicated in the “Value of indicator” field. Member States have to report on the most updated data available.
- viii) The “Unit”. This sub-field requires to specify the indicator unit (e.g. gross value added growth, turnover, leading players, market share in the EU/global market, jobs created, employment)

#### **Level of obligation**

Mandatory, if applicable (i.e. Member States are required to provide the information if the relevant national objectives and targets have been set).

## **4. FINALIZING REPORTING**

### **4.1. Validating your submission**

When filling in and saving the data, ReportENER performs a number of checks on the dataflow. In case of issues with the reported information, depending on the severity of the issue, you will either receive a warning message or saving is blocked until the issue is resolved (for more details see section X above).

Once the dataflow is fully filled in, lead reporters and/or reporters are able to “freeze” the dataflow, indicating that it is ready for validation by the lead reporters.

Lead reporters are then able to submit the “frozen “ dataflows to the Commission. Please align with the other lead reporter(s) prior to submitting your data. Once submitted an e-mail notification will be sent to all workflow participants, with a timestamped proof of submission.

#### 4.2. Resubmitting data

In case of need, lead reporters can request to reopen a certain dataflow, to revert it back to “not submitted” state.

Actions

Comment for transition actions

REQUEST REOPEN

In addition, the Commission can reopen a dataflow following a request for clarification.



**Data can be submitted multiple times.** In each occasion the data will be saved. However please note that for later use **the Commission will always take the latest version** of the submitted data.

### 4.3. Help during the reporting

If you need support please contact:

- For general questions about NECPR reporting: [EC-NECP-REPORTING@ec.europa.eu](mailto:EC-NECP-REPORTING@ec.europa.eu)
- For questions on substance on dataflows reported in ReportNet 3: [govreg@eea.europa.eu](mailto:govreg@eea.europa.eu)
- For questions on substance on dataflows reported in ReportENER: [EC-NECP-REPORTING@ec.europa.eu](mailto:EC-NECP-REPORTING@ec.europa.eu)
- For technical support for ReportNet 3: [helpdesk@reportnet.europa.eu](mailto:helpdesk@reportnet.europa.eu)
- For technical support for ReportENER: [EC-E-PLATFORM-IT-SUPPORT@ec.europa.eu](mailto:EC-E-PLATFORM-IT-SUPPORT@ec.europa.eu)
- For technical support on EU Login: [Help \(europa.eu\)](https://help.europa.eu)

## 5. QUALITY ASSURANCE AND QUALITY CONTROL

To be added in March update

## ANNEXES

### Annex 1: reporting roles

#### 6. ROLES IN THE NECPR REPORTING

This document discusses the different roles envisioned in the technical implementation of the NECPR reporting.

##### 6.1. Member state roles

- Lead reporter (2 per dataflow)
- Reporter

Function	Lead reporter
<b>Overall aim of the function</b>	The lead reporter is responsible for ensuring the complete and timely reporting of (a) data flow(s)
<b>Role/ responsibilities</b>	<ul style="list-style-type: none"> <li>• Responsible for validating and submitting completed data flows.</li> <li>• Coordinate the reporting exercise from a substantive perspective, following up overall completion and assigning the necessary reporters.               <ul style="list-style-type: none"> <li>○ Acts as distribution point of relevant developments/information related to reporting to the necessary reporters.</li> <li>○ Responsible for all reporters in their dataflow(s): that they are coordinated and updated on timelines, key meetings, processes (etc.).</li> </ul> </li> <li>• Key contact for Commission/EEA with regard to substantive issues of reporting.</li> </ul>
<b>Competencies</b>	<ul style="list-style-type: none"> <li>• Expertise of thematic area of relevant dataflow(s)</li> <li>• Knowledge/coordination of supporting reporters and relevant supporting ministry/ministries               <ul style="list-style-type: none"> <li>○ To be able to disseminate information related to the relevant dataflow(s)</li> </ul> </li> <li>• Understanding of the reporting system (ReportNet and/or ReportENER) for relevant dataflow(s) following guidance and training:               <ul style="list-style-type: none"> <li>○ Ability to assign reporters</li> <li>○ Ability to validate and release/submit data when completed</li> </ul> </li> </ul>
<b>Interfaces to</b>	<ul style="list-style-type: none"> <li>• Data stewards, regarding thematic reporting queries</li> <li>• Data custodians, regarding technical reporting queries</li> <li>• Other lead reporters, for coordination and to ensure the overall reporting obligations of the Member State is accomplished</li> <li>• Reporters, where assigned by lead reporter</li> </ul>
<b>Note</b>	Lead reporters + back-ups for each data flow are nominated initially by mail through the Permanent Representation (November 2022).

A lead reporter should be assigned for each individual data flow, however a lead reporter can be responsible for multiple or even all data flows for the NECPR.

Changes can only be requested by e-mail by the relevant lead reporter(s) or Permanent Representation to the relevant data steward. The data steward must inform the Assessment Coordinator and relevant reporting system coordinator (Reportnet or ReportENER).

Contact for changes:

(for dataflows in ReportNet) [govreg@eea.europa.eu](mailto:govreg@eea.europa.eu)

(for dataflows in ReportENER) [EC-E-PLATFORM-IT-SUPPORT@ec.europa.eu](mailto:EC-E-PLATFORM-IT-SUPPORT@ec.europa.eu)

Function	Reporter
<b>Overall aim of the function</b>	The reporter is responsible for contributing to complete and timely reporting of (a) data flow(s)
<b>Role/ responsibilities</b>	<ul style="list-style-type: none"> <li>• Contributing to complete and timely reporting of (a) data flow(s). A reporter cannot submit completed data flows.</li> </ul>
<b>Competencies</b>	<ul style="list-style-type: none"> <li>• Expertise of thematic area of relevant dataflow(s)</li> <li>• Understanding of the reporting system (ReportNet and/or ReportENER) for relevant dataflow(s) following guidance and training</li> </ul>
<b>Interfaces to</b>	<ul style="list-style-type: none"> <li>• Lead reporter</li> </ul>
<b>Note</b>	<p>A reporter is assigned to an individual dataflow by the relevant lead reporter (can be assigned to multiple dataflows). It is not required to officially nominate a reporter to a data flow (given that a lead reporter is nominated)</p> <p>For ReportENER: lead reporters can request changes to the reporters by e-mail: <a href="mailto:EC-E-PLATFORM-IT-SUPPORT@ec.europa.eu">EC-E-PLATFORM-IT-SUPPORT@ec.europa.eu</a></p>

## **6.2. Commission/EEA roles**

- Assessment coordinator
- ReportNet coordinator
- ReportENER coordinator
- Data steward



<b>Function</b>	<b>Assessment coordinator</b>
<b>Overall aim of the function</b>	The assessment coordinator is responsible for the management of the overall process on the business/policy side, keeping track of the fulfilment of the other Commission/EEA roles, in particular data stewards & associated reviewers at COM side.
<b>Role/ responsibilities</b>	<ul style="list-style-type: none"> <li>• Establishes and manages the business processes for the overall assessment</li> <li>• Manages the meetings of the technical implementation group &amp; ISG</li> <li>• Keeps track of the fulfilment and assignment of process roles</li> <li>• If needed, escalates issues to the management level</li> </ul>
<b>Competencies</b>	
<b>Interfaces to</b>	<ul style="list-style-type: none"> <li>• All core team coordinators</li> <li>• All COM associated reviewers</li> </ul>

<b>Function</b>	<b>ReportNet coordinator</b>
<b>Overall aim of the function</b>	The ReportNet coordinator is responsible for ensuring the technical implementation of the NECPR modules implemented through ReportNet, including relations with data stewards & data custodians on the EEA side
<b>Role/ responsibilities</b>	<p><b>NECPR management</b></p> <ul style="list-style-type: none"> <li>• Manages the technical implementation of the NECPR modules implemented through ReportNet</li> <li>• Coordinates with data stewards and custodians on ReportNet dataflows, ensuring where possible a consistency of approach</li> <li>• Coordinates internal business management approaches across dataflows, establishing common timelines and where necessary resource management.</li> </ul> <p><b>Stakeholder relations</b></p> <ul style="list-style-type: none"> <li>• Maintains institutional stakeholder relations (EC, EEA, Eurostat, JRC ...) as main contact point <ul style="list-style-type: none"> <li>○ Ensures regular updates on progress are shared with relevant experts (coordinators, data stewards/custodians, other relevant internal stakeholders)</li> </ul> </li> </ul>
<b>Competencies</b>	<ul style="list-style-type: none"> <li>• Overview of key developments/challenges faced within ReportNet (per dataflow)</li> <li>• In-depth understanding of dataflow management processes</li> <li>• High-level technical and thematic data collection knowledge</li> </ul>

<b>Interfaces to</b>	<ul style="list-style-type: none"> <li>• All core team coordinators</li> <li>• All ReportNet data stewards and custodians</li> <li>• Where relevant, additional institutional stakeholders (EC, EEA, Eurostat, JRC ...)</li> <li>• Where relevant, data providers</li> </ul>
----------------------	--

<b>Function</b>	<b>ReportENER coordinator</b>
<b>Overall aim of the function</b>	The ReportENER coordinator is responsible for ensuring the technical implementation of the NECPR modules implemented through ReportENER, including relations with data stewards & data custodians on the COM side
<b>Role/ responsibilities</b>	<ul style="list-style-type: none"> <li>• Manages the technical implementation of the NECPR modules implemented through ReportENER.</li> <li>• Coordinates with data stewards and custodians on the relevant ReportENER dataflows.</li> <li>• Cooperates internally to align reportENER development plans and resources with NECPR modules implementation needs, escalates to Management if necessary.</li> </ul> <p><b>Stakeholder relations</b></p> <ul style="list-style-type: none"> <li>• Maintains institutional stakeholder relations (EC, EEA, Eurostat, JRC ...) as main contact point. <ul style="list-style-type: none"> <li>○ Ensures regular updates on progress are shared with relevant experts (coordinators, data stewards/custodians, other relevant internal stakeholders).</li> </ul> </li> </ul>
<b>Competencies</b>	<ul style="list-style-type: none"> <li>• Project management</li> <li>• Stakeholder relationship management</li> <li>• High-level technical and thematic data collection knowledge</li> </ul>
<b>Interfaces to</b>	<ul style="list-style-type: none"> <li>• All core team coordinators</li> <li>• ReportENER data steward, custodian and internal stakeholders (e.g. Product Owner, development team)</li> </ul>

<b>Function</b>	<b>Data Steward</b>
<b>Overall aim of the function</b>	Data Stewards are overall responsible for a data collection or dataflow, ensuring compliance with legislation and/or institutional regulations, interfaces to reporters, relevant coordinator and data users, ensures quality procedures are in place.

<p><b>Role/ responsibilities</b></p>	<p><b>Dataflow management</b></p> <ul style="list-style-type: none"> <li>• Establishes and manages the business processes to ensure their dataflow is operational for data collection, data processing/validation and data dissemination.</li> <li>• Ensures a project plan for their relevant dataflow and permanent quality improvement - the what, when, who, how and resources.</li> <li>• Translate requirements to different expert groups (data custodian, analyst, communication).</li> <li>• Coordinates with data custodian on technology improvements impacting data flow.</li> <li>• Coordinate with main data users.</li> <li>• Where necessary ensures that data collected is made visible/accessible.</li> </ul> <p><b>Stakeholder relations</b></p> <ul style="list-style-type: none"> <li>• Works with relevant coordinator to maintain institutional stakeholder relationships (EC, EEA, Eurostat, JRC ...).</li> <li>• Directly maintains stakeholder relationships with data providers/reporters at national level.</li> <li>• Manages the assignment of reporters' rights to the relevant dataflow, after (re)-nomination.</li> <li>• Monitoring reporting status (and initial follow up if there are reporting delays/issues)</li> </ul>
<p><b>Competencies</b></p>	<ul style="list-style-type: none"> <li>• Has in-depth thematic knowledge of the data collection <ul style="list-style-type: none"> <li>○ Understands the data from a content point of view.</li> <li>○ Understands the data collection methodology.</li> <li>○ Understands how this data can be used and not used.</li> </ul> </li> <li>• General understanding of ICT relevant for monitoring, data handling and reporting practices e.g. quality control, data formats (spatial, textual, tabular), and data sharing.</li> </ul>
<p><b>Interfaces to</b></p>	<ul style="list-style-type: none"> <li>• Core group institutional stakeholders (Commission, EEA, Eurostat, JRC ...) with/via relevant coordinator.</li> <li>• Implementation group thematic colleagues internally or externally (Commission, EEA, Eurostat, JRC ...) directly.</li> <li>• Relevant data custodian(s)</li> <li>• Reporters/data providers</li> <li>• Other final users of the data</li> </ul>